

1 Introducing a plurality of fundamental cylindircal telescopic
2 units to create multi-compartment separation chamber so that each
3 compartment can be seen as separated cyclone. All those according
4 the idea generated in Patent No. 6071424 and Application No.
5 10/131425 filed April 23, 2002.

6 2. The improved apparatus according to Claim 1 introducing
7 multi-compartment separation chamber so it can be designed in
8 cylindrical telescopic cyclone housing as well as in conical
9 cyclone housing. *or in another kind of housing.*

10 3. The improved apparatus according to Claim 1 introducing
11 the fundamental telescopic unit comprising two different dimensions
12 cylinders axially connected with passage between them made of the
13 same material like cyclone housing or as replaceable liners.

14 4. The improved apparatus according to Claim 1 introducing
15 the longitude axial wall section of the fundamental unit comprising
16 the angle α between upper wall stretch and longitude axis, the
17 angle β between lower wall stretch and longitude axis, and the
18 interior angle γ between upper and lower stretches.

19 5. The improved apparatus according to Claim 1 as
20 Embodiment1 introducing for a given fundamental unit measurements
21 comprising such Set. No.1 of angle α β γ so that the unit upper
22 portion is predominately cylindrical and lower portion is conical

1 Then to obtain the best cyclone performances.

2 6. The improved apparatus according to Claim 1 as Embodiment2
3 introducing for a given fundamental unit measurements comprising
4 the Set No.2 of angles α, β, γ that the unit is of all long one conical
5 shape to obtain the worse cyclone performances.

6 7. The improved apparatus according to Claim 1 as
7 Embodiment1 introducing for a given fundamental unit measurement
8 comprising such Set No.3 of the angles α, β, γ to be between Set
9 No.1 and Set No.2, that the unit consists of two conical portions,
10 upper one and lower one. Then the decreased cyclone performances
11 follow growing the angle α .

12 8. The improved apparatus according to Claim 5, 6 and 7
13 introducing the suitable replacable liners to be put in cyclone
14 housing to get the chosen shape of each compartment, if cyclone
15 housing is not formed finally as desired to get the cylindrical
16 telescopic multi-compartment separation chamber.